

100% SUBMITTAL

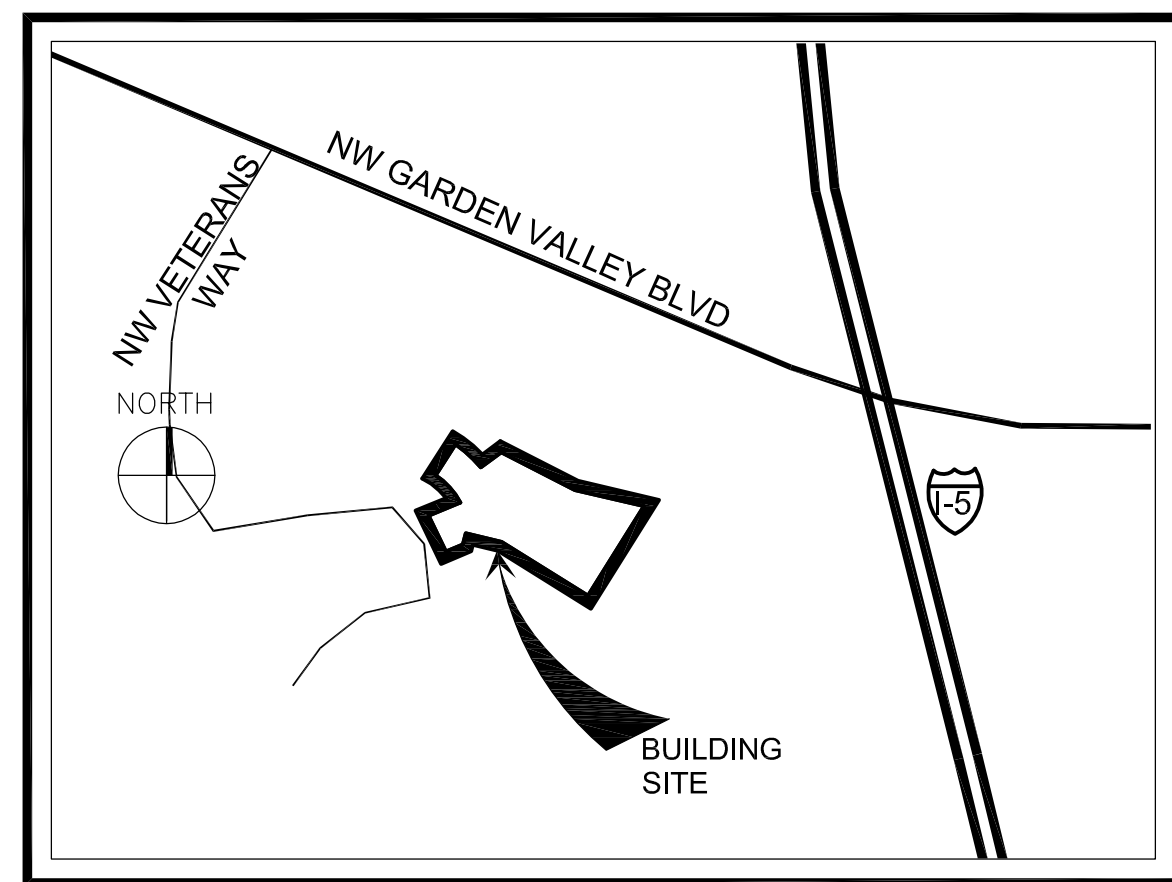
V.A. ROSEBURG HEALTHCARE SYSTEM

SEISMIC REPLACEMENT BUILDING 2

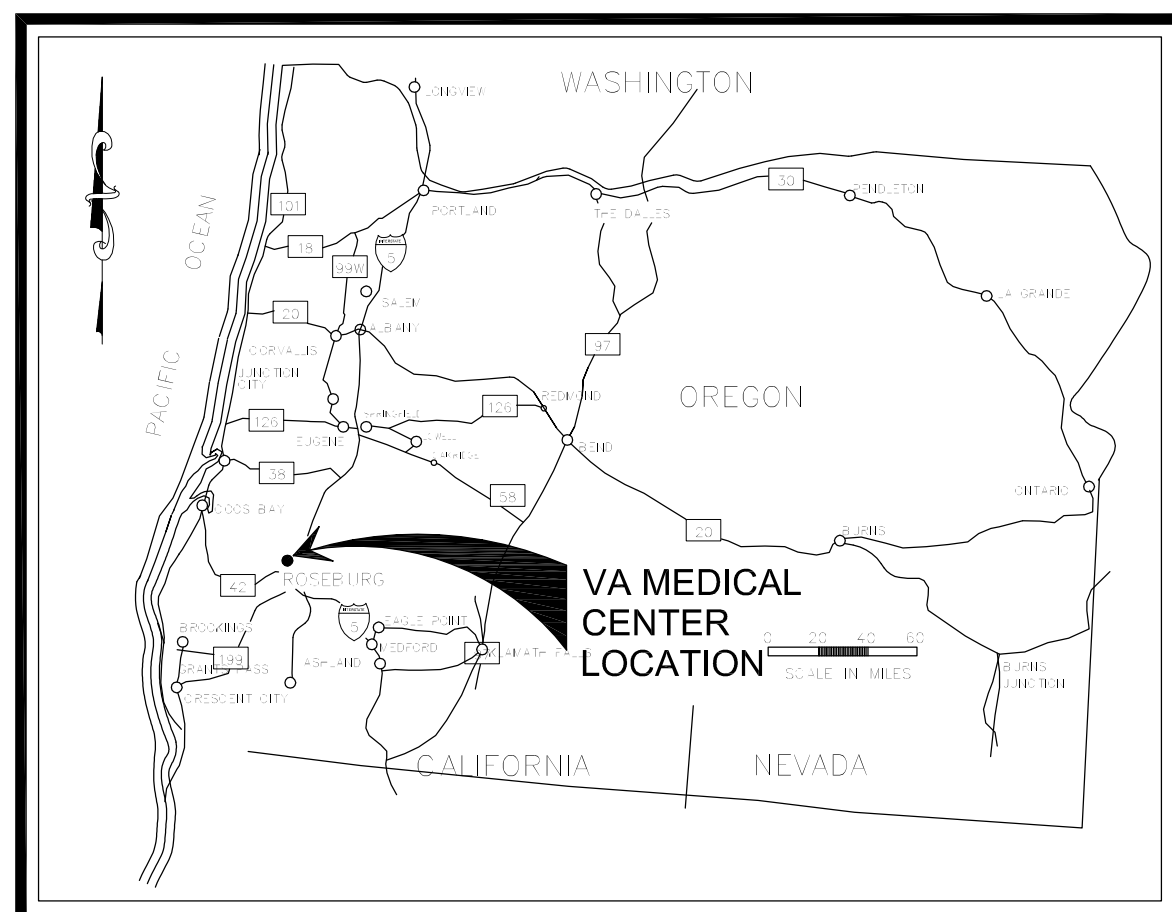
PHASE 1 MINOR / PROJECT NO. 653-322

ACUTE PSYCHIATRIC WARD

VICINITY MAP



LOCATION MAP



CONTACT LIST

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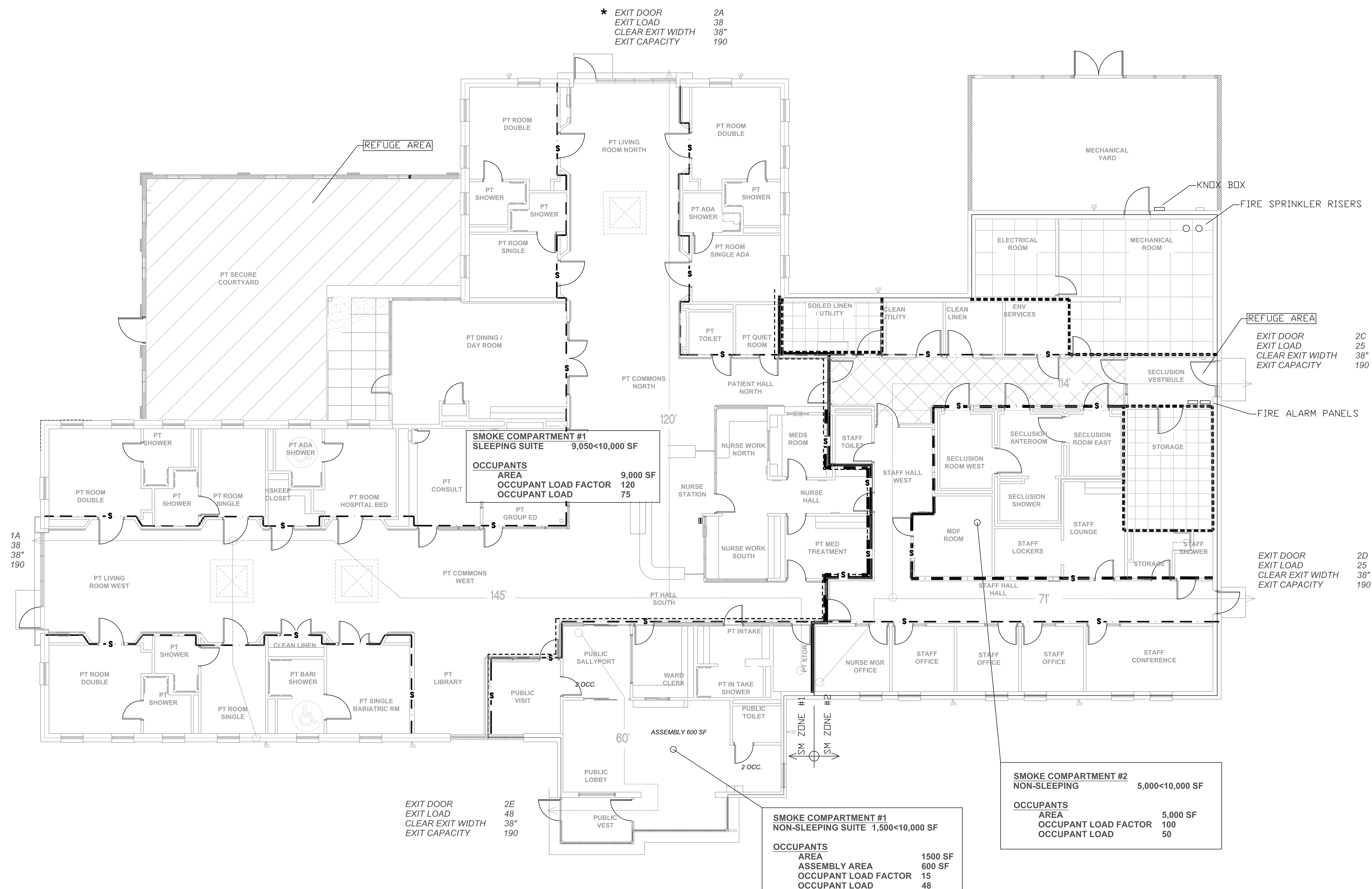
SHEET INDEX - VOLUME 1

- GENERAL -		- STRUCTURAL -	
GH-101	COVER SHEET, PROJECT DATA, SHEET INDEX	SF-001	GENERAL NOTES
GH-102	FIRE LIFE SAFETY PLAN	SF-002	SYMBOLS, ABBREVIATIONS, AND SHEET LIST
GH-103	FIRE LIFE SAFETY DESIGN NARRATIVE	SF-002.1	SYMBOLS, ABBREVIATIONS, AND SHEET LIST - DA
- SURVEY -		SF-031	TYPICAL CONCRETE DETAILS
V1	TOPOGRAPHIC SURVEY	SF-032	TYPICAL CONCRETE DETAILS
V2	TOPOGRAPHIC SURVEY	SF-041	TYPICAL MASONRY DETAILS
- CIVIL -		SF-051	TYPICAL STEEL DETAILS
CG-101	GRADING PLAN	SF-052	TYPICAL STEEL DETAILS
CP-101	PAVING PLAN	SF-053	TYPICAL METAL DECK DETAILS
CS-101	EROSION AND SEDIMENT CONTROL PLAN	SF-054	TYPICAL NON-STRUCTURAL DETAILS
CS-102	SITE DIMENSIONING PLAN	SB-101	OVERALL FOUNDATION PLAN
CS-501	EROSION AND SEDIMENT CONTROL NOTES	SB-101.1	OVERALL FOUNDATION PLAN - DA
CS-502	CIVIL AND SURVEY LEGENDS, NOTES, AND DETAILS	SB-102	FOUNDATION PLAN
CS-503	CIVIL DETAILS	SB-102.1	FOUNDATION PLAN - DA
CS-504	CIVIL DETAILS	SB-103	FOUNDATION PLANS
CS-505	CIVIL DETAILS	SB-103.1	FOUNDATION PLANS - DA
CU-101	STORM DRAIN PLAN	SF-111	OVERALL ROOF FRAMING PLAN
CU-102	SANITARY SEWER, WATER, AND NATURAL GAS DISTRIBUTION PLAN	SF-111.1	OVERALL ROOF FRAMING PLAN - DA
CU-103	SANITARY SEWER, WATER, AND NATURAL GAS DISTRIBUTION DETAILS	SF-112	ROOF FRAMING PLAN
CU-104	STORM DRAIN BASE BID + DEDUCT ALT C-3	SF-112.1	ROOF FRAMING PLAN - DA
GD-100	SITE DEMOLITION PLAN	SF-113	ENLARGED ROOF FRAMING PLANS
GS-100	SITE PLAN	SF-112.1	ROOF FRAMING PLAN - DA
- LANDSCAPE -		SF-201	BRACED FRAME ELEVATIONS
LS-100	TREE PROTECTION PLAN	SF-202	BRACED FRAME ELEVATIONS
LS-101	LANDSCAPE LAYOUT PLANS	SF-202.1	BRACED FRAME ELEVATIONS - DA
LS-102	LANDSCAPE DIMENSIONING PLANS	SF-203	BRACED FRAME ELEVATIONS
LS-501	LANDSCAPE SITE FEATURE DETAILS	SF-203.1	BRACED FRAME ELEVATIONS - DA
LS-100	EXISTING IRRIGATION MAINLINE BYPASS PLAN	SB-501	FOUNDATION DETAILS
LI-101	IRRIGATION PLAN	SF-511	STEEL DETAILS
LI-501	IRRIGATION DETAILS	SF-512	STEEL DETAILS
LP-101	LANDSCAPE PLANTING PLAN	SF-513	STEEL DETAILS
LP-501	LANDSCAPE PLANT LEGEND AND DETAILS	SF-514	STEEL DETAILS
		SF515	COREBRACE DETAILS
- ARCHITECTURAL -			
AS-001	ABBREVIATIONS, LEGENDS AND NOTES		
AS-002	PARTITION TYPES AND DETAILS		
AS-101	OVERALL FLOOR PLAN		
AS-101.1	ENLARGED FLOOR PLAN - SOUTHWEST		
AS-101.2	ENLARGED FLOOR PLAN - NORTH		
AS-101.3	ENLARGED FLOOR PLAN - EAST		
AS-101.4	ENLARGED FLOOR PLAN - CANOPY PLAN		
AS-101.5	FLOOR PLAN - DA		
AS-102.0	OVERALL REFLECTED CEILING PLAN		
AS-102.1	ENLARGED CEILING PLAN - SOUTHWEST		
AS-102.2	ENLARGED CEILING PLAN - NORTH		
AS-102.3	ENLARGED CEILING PLAN - EAST		
AS-102.4	REFLECTED CEILING PLAN - DA		
AS-103	ROOF PLAN		
AS-103.1	ROOF PLAN - DA		
AS-201	EXTERIOR ELEVATIONS		
AS-211	INTERIOR ELEVATIONS		
AS-212	INTERIOR ELEVATIONS		
AS-213	INTERIOR ELEVATIONS		
AS-214	INTERIOR ELEVATIONS		
AS-215	INTERIOR ELEVATIONS		
AS-216	INTERIOR ELEVATIONS		
AS-311	EXTERIOR WALL SECTIONS		
AS-312	EXTERIOR WALL SECTIONS		
AS-313	EXTERIOR WALL SECTIONS		
AS-501	EXTERIOR DETAILS		
AS-502	EXTERIOR DETAILS		
AS-503	EXTERIOR DETAILS		
AS-511	INTERIOR DETAILS - CEILING		
AS-512	INTERIOR DETAILS - CASEWORK		
AS-521	ROOF DETAILS		
AS-601	EXTERIOR DOOR AND WINDOW ELEVATIONS		
AS-602	EXTERIOR WINDOW DETAILS		
AS-603	EXTERIOR WINDOW DETAILS		
AS-604	EXTERIOR WINDOW DETAILS		
AS-611	INTERIOR DOOR AND WINDOW ELEVATIONS		
- FINISHES -			
FS-101	FINISH FLOOR PLAN		

SHEET INDEX - VOLUME 2




- GENERAL -	
GI-101	COVER SHEET, PROJECT DATA, SHEET INDEX
- FIRE PROTECTION -	
FP-1	FIRE SPRINKLER SITE
FP-2	FIRE SPRINKLER SYSTEM
- PLUMBING -	
PL-001	PLUMBING SCHEDULES
PL-001.1	PLUMBING SCHEDULES - DA
PL-100	FOUNDATION PLAN - PLUMBING
PL-100.1	FOUNDATION PLAN - PLUMBING DA
PL-101.1	FLOOR PLAN WEST - PLUMBING
PL-101.1.1	FLOOR PLAN WEST - PLUMBING DA
PL-101.2	FLOOR PLAN NORTH - PLUMBING
PL-101.3	FLOOR PLAN EAST - PLUMBING
PL-500	PLUMBING DETAILS
PL-500.1	PLUMBING DETAILS - DA
- MECHANICAL -	
MH-001	MECHANICAL & PLUMBING SYMBOLS LIST & SHEET INDEX
MH-002	MECHANICAL SCHEDULES
MH-101.1	FLOOR PLAN WEST - HVAC
MH-101.1.1	FLOOR PLAN WEST - HVAC DA
MH-101.2	FLOOR PLAN NORTH - HVAC
MH-101.3	FLOOR PLAN EAST - HVAC
MH-102.1	FLOOR PLAN WEST - HVAC PIPING
MH-102.1.1	FLOOR PLAN WEST - HVAC PIPING DA
MH-102.2	FLOOR PLAN NORTH - HVAC PIPING
MH-102.3	FLOOR PLAN EAST - HVAC PIPING
MH-201	ROOF PLAN - MECHANICAL & PLUMBING
MH-201.1	ROOF PLAN - MECHANICAL & PLUMBING DA
MH-300	MECHANICAL ROOM PLAN
MH-501	MECHANICAL DETAILS
MH-502	MECHANICAL DETAILS
MH-503	MECHANICAL CONTROLS
- ELECTRICAL -	
ES-000	SYMBOLS LIST & SHEET INDEX
ES-001	SITE PLAN - ELECTRICAL
ES-101.1	FLOOR PLAN SOUTH/WEST WING - POWER
ES-101.1.1	FLOOR PLAN SOUTH/WEST WING - POWER DA
ES-101.2	FLOOR PLAN NORTH WING - POWER
ES-101.3	FLOOR PLAN EAST WING - POWER
ES-101.4	ENLARGED LOADING DOCK PLAN - POWER
ES-102.1	FLOOR PLAN SOUTH/WEST WING - LIGHTING
ES-102.1.1	FLOOR PLAN SOUTH/WEST WING - LIGHTING DA
ES-102.2	FLOOR PLAN NORTH WING - LIGHTING
ES-102.3	FLOOR PLAN EAST WING - LIGHTING
ES-102.4	ENLARGED LOADING DOCK PLAN - LIGHTING
ES-103	ROOF PLAN
ES-104.1	LUMINAIRE SCHEDULE
ES-104.2	PANEL SCHEDULES
ES-105.1	ELECTRICAL DETAILS
ES-105	ELECTRICAL DETAILS
ES-106	ONE LINE DIAGRAM
- LOW VOLTAGE -	
TA-001	LOW VOLTAGE SYSTEMS TITLE SHEET
TA-010	TELECOMMUNICATIONS OUTSIDE PLANT
TA-011	TELECOMMUNICATIONS SYSTEMS RISER
TA-012	TELECOMMUNICATIONS ROOM 3D CONCEPT SKETCH
TA-013	TELECOMMUNICATIONS ROOM PLAN DETAILS
TA-014	TELECOMMUNICATIONS ROOM EQUIP RACK DETAIL MDP
TA-015	TELECOMMUNICATIONS ROOM EQUIPMENT RACK DETAIL OF
TA-020	TELECOMMUNICATIONS CABLING SYSTEM DETAILS
TA-021	TELECOMMUNICATIONS AND AV INFRASTRUCTURE WALLBOX AND FLOORBOX DETAILS
TA-022	LOW VOLTAGE SYSTEMS INFRASTRUCTURE DETAILS
TA-023	NURSE CALL AND CCTV DETAILS
TA-024	ACCESS CONTROL DOOR DETAILS
TA-101	LOW VOLTAGE SYSTEMS FIRST FLOOR PLAN
TA-102	LOW VOLTAGE SYSTEMS FIRST FLOOR RCP
TA-103	TWO-WAY COMMUNICATIONS/PAGING SYSTEM ZONING PLAN
TA-410	CCTV SIGNAL FLOW DIAGRAM
TA-510	DAY / DINING, PATIENT GROUP EDUCATION, PATIENT LOUNGE AV SIGNAL AND CONTROL FLOW
TA-511	DAY / DINING, PATIENT GROUP EDUCATION, PATIENT LOUNGE AV PLATE AND RACK ELEVATION
TA-600	TWO-WAY COMMUNICATIONS / PAGING / INTERCOM SIGNAL FLOW DIAGRAM
TA-601	TWO-WAY COMMUNICATIONS / PAGING / INTERCOM SIGNAL FLOW DIAGRAM
TA-602	TWO-WAY COMMUNICATIONS / PAGING / INTERCOM CONTROL FLOW DIAGRAM
TA-700	NURSE CALL SIGNAL FLOW DIAGRAM
- FIRE ALARM -	
FA-1	FIRE ALARM COVER SHEET
FA-2	FIRE ALARM PLAN

Revisions	Date	CONSULTANT	STAMP	ARCHITECT	Drawing Title	Project Title	VA Project Number	Office of Construction and Facilities Management
					COVER SHEET, PROJECT DATA, SHEET INDEX	SEISMIC REPLACEMENT BLDG 2 PHASE 1 MINOR ACUTE PSYCHIATRIC WARD	653-322	Department of Veterans Affairs
					Approved: Project Director	Location ROSEBURG, OREGON	Building Number 086	
						Date 31 MAY 2013	Checked TME	Sheet Number GI-001



IRE AND LIFE SAFETY LEGEND

OCCUPANCY & EGRESS TYPE RATING REQUIREMENTS

	SMOKE BARRIER (1 HR)
	SMOKE PARTITION (0 HR)
	1 HOUR FIRE BARRIER (1 HR)
	SECURITY BOUNDARY (NON-RATED)

CONSTRUCTION TYPE RATING REQUIREMENTS: NONE

EXIT PATH

TRAVEL DISTANCE XX'

PATH OF TRAVEL

OCCUPANT LOAD



OCCUPANT LOAD	
OCCUPANT CLASS	HEALTH CARE
SQUARE FOOTAGE	15,500 SF
OCCUPANT FACTOR	100 TO 120

EXIT INFORMATION

EXIT DOOR	2A
EXIT LOAD	27
CLEAR EXIT WIDTH	38"
EXIT CAPACITY	190

INDICATES SIDE 'EXIT' IS ON INDICATES WALL MOUNTED DIRECTION TO EXIT		ARMED CORRIDOR
INDICATES SIDE 'EXIT' IS ON DIRECTION TO EXIT		EXIT SIGN WALL MOUNTED REFER TO ELECTRICAL DRAWINGS
INDICATES CEILING MOUNTED		EXIT SIGN CEILING MOUNTED REFER TO ELECTRICAL DRAWINGS
		FIRE ALARM MANUAL PULL STATION REFER TO FA DRAWINGS
FEC 		FIRE EXTINGUISHER CABINET REFER TO ARCHITECTURAL

FIRE LIFE SAFETY PLANS

N.T.S.

Revisions	Date	CONSULTANT	STAMP	ARCHITECT	Drawing Title	Project Title	VA Project Number	OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT	
		WOMER & ASSOCIATES 221 North Wall Street, Suite 600 - Spokane, WA 99201		 Tina Ely Architect 2915 Wingate Street / Eugene, OR 97408 541.521.2477 / Tina.Ely@comcast.net www.TinaElyArch.com	FIRE LIFE SAFETY PLAN	SEISMIC REPLACEMENT BLDG 2 PHASE 1 MINOR ACUTE PSYCHIATRIC WARD	653-322		
		 			Approved: Project Director	Location ROSEBURG, OREGON	Building Number 086		Sheet Number
		 CREIGHTON ENGINEERING 210 N. University Rd. Suite 100 (509) 921-9755 Spokane, WA 99206-5084 FAX(509) 921-9806				Date 31 MAY 2013	Checked SRC		Drawn LDJ

RE: VA RMC Acute Psych Ward - 100% CD Review New Construction 15,550 SF +/-
Summary of 2012 LSC 101 Chapter 18 and Chapters 6-10 Requirements.
Passive Fire Membranes (Building Construction Type , Allowable Area, Separation Analysis,
Fire Membranes, Membrane Duct and Transfer Grille Protection, Fire Systems Equipment.
Summary of Fire System Components per Local AHJ Discussions.

The following analysis and information is provided to assist the owner, architect, design team and regulatory agencies understand the fire protection elements (passive, active, alarm) chosen for this facility. There has been a trend of “relaxation” of passive requirements as regulatory agencies have enjoyed the success of automatic fire sprinklers, especially the new Quick Response technology.

The 2010 OSSC is not a design requirement for this project.

General Project Overview Description - Building Description

Building use is New Health Care (Chapter 18 LSC) with standard amenities. This is a SINGLE OCCUPANCY building.

The building is one story to be constructed of non rated non combustible materials per Table 18.1.6.1 (Type II (000)).

The building is designed with 2 smoke compartments. The Smoke compartments are Designated Smoke Compartment # 1 and # 2. The pubic entry area is part of Smoke Compartment # 1.

Smoke Compartment # 1: Area 10,550 SF. Area is eligible to be a “suite”.

Smoke Compartment # 2: Area is 5,000 SF. Area includes treatment area.

Smoke Compartment # 2 is not a “suite”.

Area of Smoke Compartments are less than 22,500 SF (maximum area). (18.3.7.1(3))

Exit Travel Paths are defined for each compartment - less than 200FT (18.3.7.1(4)).

The treatment portion of the building (Compartment 2) is mental health related with escorted resident traffic.

A “security perimeter” exists between smoke compartment #1 and #2.

A “security perimeter” exists between smoke compartment #1 and the Entry Suite.

“Suites” by definition do not require smoke partition egress separation. For project uniformity, exit access paths are treated as corridors throughout.

There are no horizontal exits in this building.

There are no FIRE WALLS in this building.

Topic	2012 LSC
Occupancy	Chapter 18 New Health Care
Corridors: General	18.3.6.2. 0 HR Smoke Partitions
Corridor Waiting Areas	Permitted - 18.3.6.1 (2) w/restrictions.
Corridor Nurse/Home Stations	Permitted...18.3.6.1 (3) w/restrictions.
Corridor Walls	Chapter 18.3.6.2.3. 0 HR Design as Smoke Resistant
Corridor Doors	No Fire Rating 18.3.6.3.1 (1). No closers, no louvers, Positive latching (18.3.6.3.5). tight fitting
Smoke Compartments	2 Smoke compartments (18.3.7.1). 22,500 SF maximum 200 FT travel dist max 1 HR Fire Rating (18.2.4.3) but does not require smoke dampers at duct penetrations. Fire Dampers are required.
Refuge Area	15 SF (18.3.7.5.1/18.3.7.5.2)
Secured Yards	PT secure Courtyard
Independent Egress	2 Exits Required (18.2.4) Key Card required to exit Patient Area
Automatic Sprinklers	Section 9-7 Sprinklers Throughout (18.3.5) Sprinkler zones to match smoke compartments (VA FP DM Section 6.1G, NFPA 101 2012 (18.3.71).)
Sprinkler Characteristics	Smoke Comp's - QR (18.3.5.6). Institutional
Fire Alarm System	Section 9-6 Devices Throughout (18.3.4) VA FP DM modifies - deletes occupant notification in resident rooms (purpose of fire alarm system is “staff” notification).
Auto Smoke Detection	Spaces “open” to corridors (18.3.6.1- 4)

FIRE LIFE SAFETY PLANS

N.T.S.

Topic	2012 LSC
Allowable Bldg/Area .	
Building Main Floor	LSC regulates compartment size not building size.
Building Design Height	LSC regulates compartment size not building height.
Building Design Stories	LSC regulates occupancy level per Table 18.1.6.1. Type II (000) - 1 story above grade maximum.
Type of Construction:	II (000) (steel frame - 0 HR - Table 18.1.6.1).
1. Structural Frame:	0 HR Integrity Protection.
2. Exterior Bearing Walls	0 HR Integrity Protection.
3. Interior Bearing Walls	0 HR Integrity Protection.
4. Interior Non Bearing Walls	0 HR Integrity Protection.
5. Floor/Clg Construction	0 HR Integrity Protection
6. Clg/Roof Construction	0 HR Integrity Protection
Fire Membranes	
Fire Wall -	Not required.
Fire Barriers:	Hazardous Areas (Table 18.3.2.1)
Fire Partitions: Corridors	FP's Not Defined Corridors 0 HR Construct as “Smoke Partition” - (18.3.6.2.3.1- .3). Fire Damper Not Required - (8.4.1, 18.3.6.2.4) Smoke Damper Not Required for Ducting (8.4.6.2). (18.3.7.3(2)) Smoke Damper Required for Air Transfer Grilles (8.4.6.2).
Smoke Barrier:	Smoke Compartment -SubDiv Space Purpose: “Occupancy Relocation”. Construct as 1 HR F R (18.3.7.3) Construct as smoke tight (8.5.1). Fire Damper Required (8.5.1.5.2)). Smoke Damper Required for air transfer grills (8.5.5.2). Smoke Damper Deletion (18.3.7.3. Exc 2 for fully ducted).
Smoke Partition: “Smoke Slowdown” not prevention.	Corridors or “Suite” Boundaries (Sec 8.4). Smoke Tight Design (Sec 8.4.1) No Fire Rating (8.4.1) Fire Damper Not Required. Ducts - Smoke Damper Not Required. Air Trans - Smoke Damper Required (8.4.6.2)
Exterior Wall Rating RE Prop Line	Not a Design Constraint
Shaft Ratings:	1 Story - Not Applicable
Elevator Lobbies, Mach Rooms:	1 Story Not Applicable
Roof	Type II (000) 0 HR Table A 8.2.1.2.
Fire Stopping	All Fire/Smoke Membranes (8.4.4, 8.4.5).
Interior Finishes	
Interior Finish Chapter 18 Spaces:	Minimum Class A or B (18.3.3.2).
Interior Finish Chapter 18 Egress:	Minimum Class A or B (18.3.3.2).
Fire System Details	
Fire Sprinklers:	NFPA 13 (Section 9-7). NFPA 13 (VAFP DM Section 6.1 B). No special omissions for Health Care Occupancies. Sprinkler Type: QR- Institutional
Fixed Type Auto Exting Systems	None Required (no cooking).
Portable Fire Extinguishers	Required per NFPA 10 (9.7.4.1) Secure in Patient Area(s)
Standpipes:	Not Required (9.7.4.2)
Manual Fire Alarm	Occupant Notification Required Throughout (Section 9-6). VA FP DM 7.3 F 2 modifies LSC - deletes occupant notification in resident rooms (purpose of fire alarm system is “staff” notification not occupant notification).
Manual Stations	One located in Seclusion Vestibule One Located at Nurse Station.
Automatic Detection Rooms:	All rooms in Smoke Compartment #1 (sleeping suite)- Suite exceeds 7,500 SF (18.2.5.7.2.3(c)) Required (18.2.5.7.2.3.(c)).
Automatic Detection Sleep Rooms:	
Automatic Detection Corridors:	Required for Open to Egress Spaces (18.3.4.5.2, 18.3.6.1 (2) - (5).)
Automatic Detection: F S Functions	HVAC Shut Down Return and Supply 2,000 CFM, 15,000 CFM Supply and Return Side (90B).
Automatic Detection: F S Functions	Damper FSD or SD (18.3.4.4 - NFPA 90B).

Topic	2009 LSC
Automatic Detection: Elevator Recall	Not Applicable
Automatic Detection: Door Release	None
Automatic Detection: Door Release	Delayed Egress Permitted 7.2.1.6.1, 18.2.2.2.4 (2). (fire alarm or crash bar timed release).
Controlled Access Door Release	Controlled Egress Permitted 7.2.1.6.1, 18.2.2.2.4 (3). (key card or crash bar timed release).
Exiting	2 or more Means of Egress to Grade or Adjacent Smoke Compartment provided for each Smoke Compartment.
Travel Distance	Maximum 200 FT to Exit (18.2.6.2.1)
Travel Distance	50 FT Room CPOT (18.2.6.2.3).
Travel Distance	30 FT Dead Ends (18.2.5.2).
Topic	2010 OFC
Chapter 3:	
Section 310 Smoking	310 “No” Smoking Signage To Be Provided.
Section 315 Misc Comb Matter	315 24/7/365 Occupancy - Enforcement.
Section 318..Recycle Collection	318 per specific VA design manual.
Chapter 4: Emergency Planning and Preparedness:	
FD Pre-fire planning	Will be established per Fire Department review of 90% contract document submittal.
FD fire suppression procedure	Per NFPA 13 (sprinkled building fire suppression).
Chapter 5: Fire Service Features:	
Section 503 Fire Access Roads	Fire Access Lane - New Fire Lane to be provided to west and south of building. New lane to be 24 FT wide, designed to fire apparatus structural loading. Road to allow approach to within 150 FT of building. “Hammerhead” turnaround provided.
Section 504 Access to Bldg/Roof	No Roof Requirement (less than 4 stories).
Section 505...Premise Identification	Shall have address signage per local FD standard.
Section 506...Key Boxes	Shall have Key Box per FD direction (KNOX BOX).
Section 507...Hazard to Firepersons	Owner to provide details of any condition or content which would allow a fast spreading fire, explosion hazard, hazardous materials MSDS to local FD.
Section 508...Fire Water Supplies	See OFC Append. Sect “B” & “C” for fire flow required.
Section 509 Fire Command Center	Fire Command Center not required
Section 510 Fire Dept Ace to Equip	No specific equipment noted.
Chapter 6: Building Services and Systems:	
Sections 601-609...	No Specific Applicable Requirements.
Chapter 7: Fire Resist Const (FRR)	Not Applicable.
Chapters 8, 9, 10:	Duplication of OSSC Chapters except for Existing Bldg Requirements.
Chapters 11- 42:	Chapter 14 Fire Flow to be in place and usable when combustibles arrive on construction site.
Appendix “B”	Fire Flow Fire Flow Required per Table B105.1 - for FIRE AREA of approximately 15,500 SF is 2,750 GPM (non sprinkled). Section B105.3.1.1. allows 75% reduction for approved fire sprinklers however establishes 1,500 GPM @ 20 PSI as a baseline minimum. Fire flow required is 1,500 GPM. Sprinkler Design Remote Areas typical demand is in the range of 200 -300 GPM with hose allowance. Fire Sprinkler flow demands are not additive to site fire hydrant demands - most restrictive applies.
Appendix “B” Site Water Supply	Fire Flow Test from CEI Flow Test Nov 8, 2011 indicates fire hydrant s west of the Public Safety Building. Hydrant # 7 was flow hydrant, hydrant # 6 was the control hydrant.
Fire Flow Available	Static 95 PSI. 3,150 GPM at 20 PSI. This flow level is sufficient for the fire sprinkler system or site hydrant demand. Fire flow meets the minimum required. Flow duration is not an issue for this public water source.
New Fire Hydrant	One new hydrant is proposed NE of the building to serve the sprinkler FDC.
Fire Hydrant Distribution	Hose lay distances are less than 600 FT to all building perimeter points per OFC Section 507.5.1 Exception # 2 (based on the existing hydrant SW of the building and the new hydrant NE of the building.
Fire Main Valve Access	PIV not required when control valve is accessible via an exterior door of a mechanical room.
FDC Location	Location on mechanical yard wall is acceptable - low risk to fire emergency responders and is within 100 FT of a fire hydrant capable of full fire sprinkler demand.
Fire Responder Primary Access	Seclusion Vestibule E - NE side of building. Fire Alarm Control Panel (FACP) and Voice Control Panel (VCP) located at this vestibule.
Fire Hydrant Special Features	Storz connections required, steel bollards for protection.

Revisions	Date	CONSULTANT	STAMP	ARCHITECT	Drawing Title	Project Title	VA Project Number	OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
		WOMER & ASSOCIATES 221 North Wall Street, Suite 600 - Spokane, WA 99201		 Tina Ely Architect 2915 Wingate Street / Eugene, OR 97408 541.521.2477 / Tina.Ely@comcast.net www.TinaElyArch.com	FIRE LIFE SAFETY DESIGN NARRATIVE	SEISMIC REPLACEMENT BLDG 2 PHASE 1 MINOR ACUTE PSYCHIATRIC WARD	653-322	
		 CREIGHTON ENGINEERING 210 N. University Rd. Suite 100 (509) 921-9755 Spokane, WA 99206-5084 FAX(509) 921-9806			Approved: Project Director	Location ROSEBURG, OREGON	Building Number 086	
						Date 31 MAY 2013	Checked SRC	